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APR 16 2001

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/553,094

DATE: 03/29/2001

TIME: 10:25:36

Input Set : D:\AprilCornReg.rpt

Output Set: N:\CRF3\03292001\I553094.raw

ENTERED

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1 <110> APPLICANT: Andersen, Scott E.
2   Fisher, Dane K.
4 <120> TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
5   Plants
7 <130> FILE REFERENCE: 38-21(15503)B
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/553,094
C--> 9 <141> CURRENT FILING DATE: 2000-04-18
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13 <212> TYPE: DNA
14 <213> ORGANISM: Zea mays
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24 ctgctgcaac gaccgtttca tcaccacgga ttacatgacc tacatgttca agtacgacac   180
26 cgtgcacggt caatggaagc acatgcgaca ttaccctcaa ggactccaag acgcttcttg   240
28 ttggcgagaa gccggtcacc gtctttggca tcaagaacct ccgagagatt ccgtgatgtg   300
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33 <210> SEQ ID NO: 2
34 <211> LENGTH: 371
35 <212> TYPE: DNA
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38 <223> OTHER INFORMATION: Clone ID: LIB3061-005-Q1-K1-B3
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46 tggccagggt ggccctgcag agcgacgacg tcgagctcgt cgccgtgaac gacccttca   180
48 tcagcaccga ttacatgacc tacatgttca agtatgacac tgtgcacgga cagtggaaagc   240
50 accatgaggt caaggtgaag gactccaaga cccttctctt tggtagagaa gaggttgctg   300
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54 ttgagcttac t               371
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58 <211> LENGTH: 328
59 <212> TYPE: DNA
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62 <223> OTHER INFORMATION: Clone ID: LIB3061-056-Q1-K1-F11
64 <400> SEQUENCE: 3
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68 tcaacccgat ggggaagatc aagatcgga tcaatgggtt cggcaggatc ggaaggctgg   120
70 tggccagggt ggccctgcag agtgacgatg tcgagctcgt cgccgtgaac gacccttca   180
72 tcagcaccga ctacatgacc tacatgttca agtacgacac tgtgcacgga cagtggaaagc   240
74 accatgaagt caaggtgaag gactccaaaa cccttctctt tggtagaag gaagttgctg   300
76 tgtttggctg caggaaccct gaggagatc               328
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 408

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81 <212> TYPE: DNA
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84 <223> OTHER INFORMATION: Clone ID: LIB3061-013-Q1-K1-D10
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90 tgtcctccgt ctacgagcct ctcaccctca tggccaagat caagatcggg atcaatgggt 120
92 tcggcaggat cgggaaggctg gtggccaggg tggccctgca gagcgacgac gtcgagctcg 180
94 tcgccgtgaa cgacccttcc atcagcaccg attacatgac ctacatgttc aagtatgaca 240
96 ctgtgcacgg acagtggaa gaccatgagg tcaagggtgaa ggactccaag acccttctct 300
98 ttggtgagaa ggaggtcgct gtgtttggct gcaggaaccc tgaggagatc ccatggtgct 360
100 cggttggcgc tgaatatgct gtcgagtcta ctggtgtttt cactgacc 408
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104 <211> LENGTH: 417
105 <212> TYPE: DNA
106 <213> ORGANISM: Zea mays
108 <223> OTHER INFORMATION: Clone ID: LIB3061-011-Q1-K1-H1
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114 tagcagcctc tcaccctcat ggccaagatc aagatcggga tcaatgggtt tggcaggatc 120
116 ggaaggctgg tggccagggt ggccctgcag agcgacgacg tcgagctcgt cgccgtgaac 180
118 gacccttcca tcagcaccga ttacatgacc tacatgttca agtatgacac tgtgcacgga 240
120 cagtggaaag accatgaggt caagggtgaag gactccaaga cccttctctt tgggtgagaag 300
122 gaagttgctg tgtttggctg caggaacccg gaggagatcc catggggttc ggttggcgtc 360
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138 ctacgagcct ctcaccctca tggccaagat caagatcggg atcaatgggt tggcaggat 120
140 cgggaaggctg gtggccaggg tggccctgca gagcgacgac gtcgagctcg tcgccgtgaa 180
142 cgacccttcc atcagcaccg attacatgac ctacatgttc aagtatgaca ctgtgcacgg 240
144 acagtggaa gaccatgagg tcaagggtgaa ggactccaag acccttctct ttggtgagaa 300
146 ggaggttgct gtgtttggct gcaggaaccc tgaggagatc ccatgggggt cggttggcgc 360
148 tgaatatgtt gttgagtcta ctggtgtttt cactgaccag gagaaggctg cagctcactt 420
150 ga 422
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155 <212> TYPE: DNA
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164 aggatgtcga gctcgtcgcc gtcaacgacc ccttcacac caggactac atgacctaca 120
166 tgttcaagta cgacaccgtc cagggccact ggaagcacag cgacatcaca ctcaaggact 180
168 ccaagaccct tctcttcggt gacaagccgg tcaccgtctt tggcatcagg aacctgagg 240
170 aaatcccgtg gggtagggtc ggcgctgagt atgtcgtgga gtccaccggc gtcttcactg 300

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172 acaaggacaa ggctgctgca catctcaagg gtggtgccaa gcaagctgat atctctgccc 360
174 caagcaaaga cgcacccatg ttgcaagtgt gtgtcaatga ggacaagtac acctcggatg 420
177 <210> SEQ ID NO: 8
178 <211> LENGTH: 403
179 <212> TYPE: DNA
180 <213> ORGANISM: Zea mays
182 <223> OTHER INFORMATION: unsure at all n locations
183 <223> OTHER INFORMATION: Clone ID: LIB3061-034-Q1-K1-A7
185 <400> SEQUENCE: 8
187 ctcatTTGaa atcaaccat cctcgTTTcc tccgtctagc agcctctcac ccgcatggcc 60
189 aagatcaaga tcgggatcaa tgggtttggc aggatcggaa ggctggtggc cagggtggcc 120
191 ctgcagagcg acgacgtcga gctcgtcgcc gtgaacgacc ccttcatcag caccgattac 180
193 atgacctaca tgttcaagta tgacactgtg cacggacagt ggaagcacca tgaggtcaag 240
195 gtgaaggact ccaagaccct tctctttggt gagaaggagg ttgctgtgtt tggctgcagg 300
197 aacctctagg agatcccatg gggttcgggt ggcgctgaat atgttgctga gtctactggt 360
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203 <211> LENGTH: 334
204 <212> TYPE: DNA
205 <213> ORGANISM: Zea mays
207 <223> OTHER INFORMATION: unsure at all n locations
208 <223> OTHER INFORMATION: Clone ID: LIB3061-037-Q1-K1-C8
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216 tcagtggtaa gtgcctttca gagtgtaccg gcatgcccaa aactgaaatt tccggtttag 180
218 atagaattgg gggcgcgga gaaggtgcca tgtgtgtgtt tgtgtgtgtt gcctgtggat 240
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225 <210> SEQ ID NO: 10
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230 <223> OTHER INFORMATION: Clone ID: LIB3061-049-Q1-K1-G5
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236 ttccaaccca ggggctgtgg gggcgacgaa gaggagcgtg ggcacccctc gcgaggcgga 120
238 tctgaagggt aagaagggtg tctgtgcgcg cgacctcaac gtccctctcg acgacgcca 180
240 gaagatcacc gacgacaccc gcatccgcgc ctacgtcccc accatcaagt tcctcctcga 240
242 gaagggcgcc aaggatcatc tcggcagcca cctgtgtcgt gcaaaagggt tcaccctaaa 300
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251 <212> TYPE: DNA
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264 aagtgaataa ttgacatggg atagcatcag acaagttttg attagactag aagacagcat 240
266 catatttggg cttttggaga gagcacagtt ttgttacaac gctgacacat atgatagcaa 300
268 tgctttccac atggatgggt ttggagggtc tttggttgaa tatatgggta gagaaactga 360
270 aaagctccat gcacagggtg ggaggtacaa gagcccagat gagcaccctt tcttttccaa 420
272 ggatctgcct gagcc 435
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276 <211> LENGTH: 379
277 <212> TYPE: DNA
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286 atggccttca agctgggtcac caagcccgcg gcggcgctcg ccgctgctgc tcaactggga 120
288 gatctcgccc ggtggccgca ggttacgagc cgcgttgctt tcggaccagc gccaggaac 180
290 aaggggctcc gcacgggcaa caactccgca acgcccaggg ctaaggaaga gagggttgat 240
292 cgaagtgaat tattgacatt ggatagcatc agacaagttt tgattagact agaagacagc 300
294 atcatatttg gacttttggg gagagcacag ttttgttaca acgctgacac atatgatagc 360
296 aatgctatcc acatggatg 379
299 <210> SEQ ID NO: 13
300 <211> LENGTH: 392
301 <212> TYPE: DNA
302 <213> ORGANISM: Zea mays
304 <223> OTHER INFORMATION: Clone ID: LIB3061-034-Q1-K1-D8
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310 cttcccagca aagggaatc tgggaaggat ggctgggtatc ctctctgtca tgggtgatgtg 120
312 tttccctctt tgaataacag cggaaaaactt gacatcttat tggctcaggg caaagagtat 180
314 gtctttgttg caaactcaga caacttgggt gctatagtgc acatcaagat cctaaacctat 240
316 ctgatcaata accagaacga gtactgcatg gaagttactc caaagacgct ggctgacgtt 300
318 aaaggtggca ctctcatctc ttacgaaagg aagagttcag ctttttggag attgcccaag 360
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337 accttcgacg atctgagcga ccgctaccac acccactgcg acccaaggct gaatgcctcc 180
339 cagtccttgg agctcgcctt tatcatcgca gagaggctga ggaagaggag gatgcgatcg 240
W--> 341 gggctcaaca gcagcctgcc actgccgnca ctggctttct gagtagccgg agccaaacac 300
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345 tgggtgatgc 369
348 <210> SEQ ID NO: 15
349 <211> LENGTH: 362

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363 tcgcctgctg ttggtgcatc tgggtgattaa taatactact atgacagagc catgctctgt   240
365 gaagagtatt agtagcagcg ctacataaaag ctacagttcc gtctctattc tcagctatgt   300
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369 cg                                                                                   362
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385 cgcgcccgaag tcgccaaagt cgaccagatc agcgagaacg agaagtcccg gttcatcagc   180
387 ctctgtgtcac ggtacctcag tggggaggcg gacgagatcg agtggagcaa gatccagacc   240
389 cctacgggatg aagtgggtgt gccctacgat accgtcgcgt cgcctcccga agatctcagc   300
391 gagacgaaga agctgctgga taagctcgtt gtgctcaagc ttaacggagg gctcgggacg   360
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396 <210> SEQ ID NO: 17
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398 <212> TYPE: DNA
399 <213> ORGANISM: Zea mays
401 <223> OTHER INFORMATION: Clone ID: LIB3061-026-Q1-K1-D7
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407 gtcgaggaaa tcgtgcgtga actgtgttct gagacgggag ccaaccagga ggatgccctc   120
409 gcacggatcg aaaagctttc ggaagtaaac ccgatgcttg gcttcctggg ctgcaggctt   180
411 ggtatattcgt accctgagct aacagaaatg caagcccgtg ccatctttga agctgctata   240
413 gcgatgacca accagggcgt tcaagtcttt ccagagataa tggttcctct tgttggaaaca   300
415 ccgcaggaaat tgggacatca ggtggccctt atccgtcaag tcgctaacaa agttttcacc   360
417 agtatgggga aaactattgg gtacaagatc ggaacgatga ttgagattcc cagggcagct   420
419 ctagtggctg a                                                                                   431
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423 <211> LENGTH: 319
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435 cagatgatta tggctcccac agttgagctg aggcagcaag cgtgggatcg ccttctgcct   180
437 taccagaggt ctgacttcga aggcattctc cgtgctatgg atggacttcc agtgactatt   240
439 cgacttctgg accctccact acacgagttc ctttcagaag ggaacgtcga ggaaatcgtg   300

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:199 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8
L:199 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8
L:199 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8
L:199 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8
L:212 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9
L:212 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9
L:212 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:212 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
L:341 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14
L:341 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:14
L:341 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
L:341 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14
L:488 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:20
L:488 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:488 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:488 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:20
L:861 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:36
L:861 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:36
L:861 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:36
L:861 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:36
L:1090 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:46
L:1090 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:46
L:1090 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:46
L:1090 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:46
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L:1405 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:59
L:1422 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:60
L:1422 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:60
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L:1455 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:61
L:1455 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:61
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L:1455 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:61
L:1578 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:66
L:1578 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:66

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L:1578 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:66
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L:1629 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:68
L:1629 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:68
L:1629 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:68
L:1654 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:69
L:1654 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:69
L:1654 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:69
L:1654 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:69
L:1656 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:69
L:1656 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:69
L:1656 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:69
M:340 Repeated in SeqNo=69
L:1683 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:70
L:1683 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:70
L:1683 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:70
L:1683 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:70
L:1776 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:74
L:1776 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:74
L:1776 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:74
L:1919 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:80
M:340 Repeated in SeqNo=80
L:2010 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:84
L:2065 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:86
M:340 Repeated in SeqNo=86
L:2808 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:116
L:2895 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:120
L:2940 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:122
L:3239 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:135
L:3598 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:150
M:340 Repeated in SeqNo=150
L:4291 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:179
L:5294 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:219
L:5403 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:224
L:5428 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:225
L:5649 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:234
L:5700 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:236
L:5725 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:237
L:5796 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:240
L:5813 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:241
L:6274 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:260
L:6343 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:263
L:6370 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:264
L:6539 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:271
L:6568 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:272
L:6615 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:274
L:6672 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:277
L:6749 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:280

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/553,094

DATE: 03/29/2001
TIME: 10:25:37

Input Set : D:\AprilCornReg.rpt
Output Set: N:\CRF3\03292001\I553094.raw

L:6850 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:284
M:340 Repeated in SeqNo=284
L:6875 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:285
L:7246 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:300
L:7275 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:301

STATISTICS SUMMARY

PATENT APPLICATION: US/09/553,094

DATE: 03/29/2001

TIME: 10:25:38

Input Set : D:\AprilCornReg.rpt

Output Set: N:\CRF3\03292001\I553094.raw

Application Serial Number: US/09/553,094

Alpha or Numeric: Numeric

Application Class:

Application File Date: 04-18-2000

Art Unit:

Software Application: PatentIn

Total Number of Sequences: 18831

Number of Seqs: 8088989

Number of Peps: 0

Number of Errors: 0

Number of Warnings: 28372

Number of Corrections: 2

MESSAGE SUMMARY

258 W: 21279 (Mandatory Feature missing)

270 C: 1 (Current Application Number differs)

271 C: 1 (Current Filing Date differs)

340 W: 7093 ((46) "n" or "Xaa" used: Feature required)